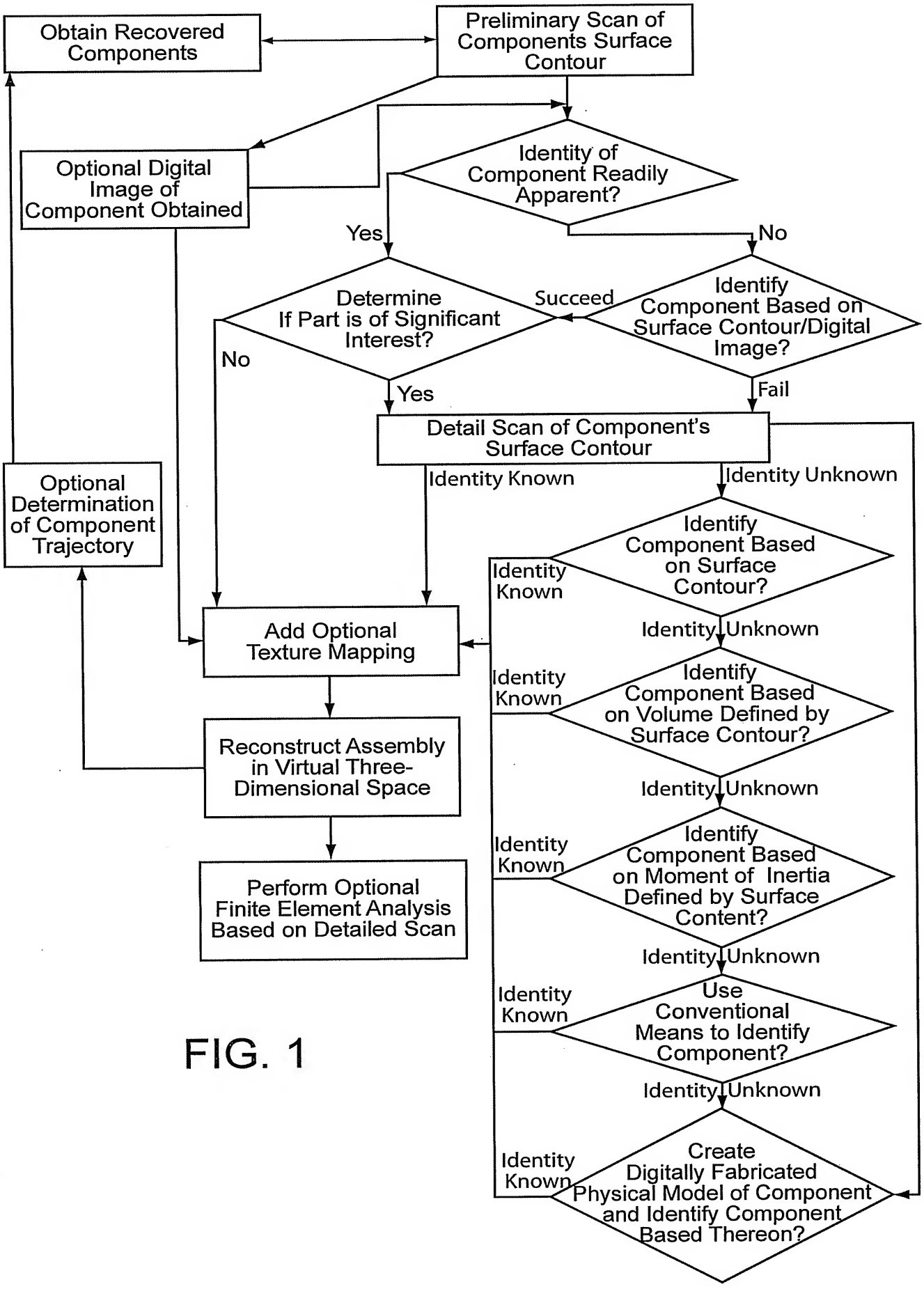
Obtain Recovered Components
Preliminary Scan of Components Surface Contour
Optional Digital Image of Component Obtained
Identity of Component Readily Apparent?
Yes
No
Determine If Part is of Significant Interest?
Succeed
Identify Component Based on Surface Contour/Digital Image?
No
Yes
Fail
Detail Scan of Component's Surface Contour
Identity Known
Identity Unknown
Optional Determination of Component Trajectory
Identify Component Based on Surface Contour?
Identity Known
Identity Unknown
Add Optional Texture Mapping
Identify Component Based on Volume Defined by Surface Contour?
Identity Known
Identity Unknown
Reconstruct Assembly in Virtual Three-Dimensional Space
Identify Component Based on Moment of Inertia Defined by Surface Content?
Identity Known
Identity Unknown
Perform Optional Finite Element Analysis Based on Detailed Scan
Use Conventional Means to Identify Component?
Identity Known
Identity Unknown
Create Digitally Fabricated Physical Model of Component and Identify Component Based Thereon?
Identity Known

FIG. 1